RECOVERY KERNEL

[illegible]

[illegible]?

Recovery Kernel [illegible]

[illegible] · [illegible] · [illegible]/[illegible]/[illegible] · [illegible]

⚠ [illegible] - [illegible] | [illegible]: 112 [illegible] 14416 or 1800-89-14416 [illegible]

[illegible]. [illegible] 3 [illegible].

[illegible]

[illegible] Recovery Kernel [illegible]: [illegible].

[illegible]. [illegible]. [illegible]. [illegible], [illegible] 15% [illegible]. [illegible]. [illegible], [illegible] — [illegible].

[illegible], [illegible] — [illegible], [illegible], [illegible] — [illegible]. [illegible] Guide [illegible] Recovery Kernel [illegible]. [illegible]. [illegible].

[illegible] - [illegible] - [illegible]. [illegible]. [illegible]

[illegible] [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible].

⚠ [illegible] [illegible] [illegible] [illegible] — [illegible] [illegible] [illegible] [illegible]

- [illegible] [illegible] [illegible] [illegible]?
- [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] sweats [illegible], [illegible] [illegible] [illegible] [illegible] [illegible]?
- [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]?
- [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]?

[illegible] [illegible] [illegible] [illegible] 'Sleep' [illegible] [illegible]: [illegible] [illegible] [illegible]. [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]. [illegible] [illegible]. [illegible] [illegible] [illegible]. [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]. [illegible] [illegible] [illegible]. [illegible] [illegible] [illegible].

[illegible] [illegible] [illegible] [illegible] [illegible] - [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] — [illegible]

[illegible] — [illegible]

[illegible]. [illegible] - [illegible] (withdrawal syndrome) [illegible], [illegible].

[illegible] - [illegible], [illegible] - [illegible].

[illegible]

[illegible]	[illegible]	[illegible]?
GABA ([illegible])	[illegible] GABA-A — [illegible]. [illegible] GABA-A [illegible]. [illegible], [illegible], [illegible], [illegible] — [illegible] GABA [illegible].	[illegible], [illegible] (GABA) [illegible]. [illegible], [illegible]. [illegible]: [illegible], [illegible], [illegible], [illegible]. [illegible].
[illegible] ([illegible])	[illegible] NMDA [illegible] — [illegible]. [illegible]. [illegible].	[illegible] — [illegible]. [illegible]: GABA [illegible], [illegible]. [illegible]. [illegible].
[illegible] ([illegible])	[illegible] Kumbens [illegible] - [illegible]. [illegible] GABA/[illegible] ث[illegible],	[illegible], [illegible]. [illegible] (anhedonia), [illegible] GABA [illegible]. [illegible], [illegible].

	[illegible] [illegible] [illegible] [illegible].	
[illegible]	[illegible] [illegible] [illegible] [illegible] [illegible] — [illegible] [illegible] [illegible] [illegible] [illegible].	[illegible] [illegible] [illegible] [illegible] [illegible], [illegible], [illegible] [illegible] [illegible] [illegible]. [illegible] [illegible] [illegible] 5-HTP, 5-MTHF [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]. [illegible] [illegible] [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] [illegible].
[illegible] [illegible]	[illegible] [illegible] [illegible] [illegible] - [illegible]- - [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] [illegible] [illegible], [illegible] OPRM1 A118G [illegible].	[illegible] [illegible] [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]. OPRM1 [illegible] [illegible] [illegible]

[illegible] [illegible] - [illegible] [illegible]

[illegible] — [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible] [illegible]: [illegible] (ADH1B [illegible]), [illegible] (ALDH2 [illegible]). [illegible] [illegible] — [illegible], [illegible] [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] [illegible].

[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] profond[illegible] [illegible] [illegible] [illegible]:

[illegible] [illegible]	[illegible]	[illegible] [illegible] [illegible] [illegible] [illegible]
ADH1B [illegible] [illegible] (rs1229984)	[illegible] [illegible] [illegible] [illegible] — [illegible] [illegible] ALDH2 [illegible] [illegible] [illegible] [illegible].	[illegible] ADH1B + [illegible] ALDH2 = [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]. [illegible] ADH1B + [illegible] ALDH2 = [illegible] [illegible] [illegible] [illegible] [illegible]. [illegible] [illegible] [illegible].
ALDH2*2 [illegible] (rs671) — [illegible] [illegible]	[illegible] [illegible] [illegible] [illegible] [illegible] [illegible]	[illegible] ALDH2*2 [illegible] [illegible] [illegible] [illegible] [illegible] —

[illegible]	[illegible]. [illegible] (*1/*2): ~50% [illegible], [illegible] [illegible]. [illegible] (*2/*2): [illegible] [illegible], [illegible].	[illegible] [illegible] [illegible] [illegible] [illegible]. [illegible] AUD [illegible] [illegible] [illegible]; [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible], [illegible] [illegible] AUD [illegible] [illegible].
ALDH2*1/*1 ([illegible] [illegible])	[illegible] [illegible] [illegible] [illegible] — [illegible] [illegible].	[illegible] [illegible] [illegible] [illegible] [illegible]. [illegible] (GABRA2, OPRM1, COMT) [illegible] [illegible]. [illegible] [illegible] [illegible] ALDH2 [illegible] [illegible] — [illegible] [illegible].

[illegible] [illegible] [illegible] [illegible] - [illegible]

[illegible] — [illegible] [illegible]

[illegible]. [illegible] [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] [illegible]:

- [illegible]: [illegible] → [illegible] [illegible] → [illegible] [illegible] [illegible] [illegible]. [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

- [redacted]
- [redacted]

[illegible] 2 — [illegible]

[illegible] — [illegible] 50–60%. [illegible]. [illegible], [illegible].
Recovery Kernel [illegible].

[illegible]

[illegible]	[illegible]	[illegible]	[illegible]
GABRA2	GABA-A [illegible]-2 [illegible] - [illegible]	rs279858 / rs279845 [illegible]	Recovery Kernel [illegible]-[illegible]. [illegible] GABAergic [illegible] - [illegible]. [illegible], [illegible]. [illegible]-[illegible] Recovery [illegible] GABA [illegible] - [illegible]ium, GABA-[illegible], [illegible].
OPRM1	[illegible]-[illegible] — [illegible]	A118G (rs1799971)	[illegible]118 [illegible] Kumbens [illegible] — [illegible]/[illegible]. [illegible]. [illegible] A118G [illegible], [illegible]. [illegible].
COMT	[illegible]	Val158Met (rs4680)	[illegible] COMT ([illegible]/[illegible], [illegible]) [illegible]

	[illegible] [illegible]		[illegible] - [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] GABA [illegible] [illegible]. [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]. [illegible] COMT ([illegible]) [illegible] [illegible] - ث[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible].
ALDH2	[illegible] [illegible] [illegible] 2 — [illegible] [illegible]	rs671 (*1/*1, *1/*2, *2/*2)	[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]. *2/*2 [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] [illegible]- [illegible] [illegible] [illegible] [illegible]. [illegible] [illegible] [illegible] [illegible]. [illegible]-[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible].
ADH1B	[illegible] [illegible] - [illegible] [illegible] [illegible] [illegible] [illegible]	rs1229984 ([illegible] [illegible] [illegible] [illegible])	[illegible] ADH1B (His48 [illegible]) [illegible] [illegible] [illegible] [illegible] — [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]. [illegible] ADH1B, [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] — [illegible] [illegible] [illegible] [illegible] AUD [illegible] [illegible].
MTHFR	[illegible] — [illegible] [illegible] [illegible]	C677T (rs1801133), A1298C (rs1801131)	[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]. MTHFR [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] — [illegible] [illegible] [illegible] [illegible]. 5-MTHF [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible].
DRD2 / ANKK1	[illegible] [illegible]2 [illegible] [illegible]	Taq1A (rs1800497)	[illegible]1 [illegible] ([illegible] [illegible]2 [illegible]) récompense [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]. [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible].

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SLC6A4 / 5-HTTLPR	□□□□□□□□□□□ □□□□□□□□□□□	□□□□□/□□□□□ □□□□	□□□□□/□□□□□ □□□□□□□ □□□□□□□□ □□□□□□ □□□□□□□□□□ □□□□□□ □□□□□□□□ AUD □□□□□□□□□□ □□□□□□□□□□□□□ - □□□□□□□□□□ □□□□□□□□□ □□□□□□□□ □□□□□□□□□□. 5-HTP, 5-MTHF □□□□□□ □□□□□□□□□□□□□□ □□□□□□□ □□□□□□□ □□□□□ □□□□□□□□□□□ □□□□□□□□□□□□□□□□ □□□□□□ □□□□□□□□□□□□□□□ □□□□□□□□ □□□□□□□□□□□□□□□□. □□□□□□□□□ □□□□□□ □□□□□ SSRIs □□□□□□□□□□□□□□□□□□ - □□□□□□□□□□□□□□ □□□□□□□□.
CYP2E1	□□□□□□□□□□□ P450 2E1 — □□□□□□□□□□□□□□ □□□□□□□□□□ □□□□□□ □□□□□□□□□□□□□□ □□□□□□; □□□□□□□□□□□□□□□ □□ □□□□□□□□ □□□□□□□□□□□ □□□□□□□□□□□□□□ □□	□□□□□ (rs2031920, rs3813867)	□□□□□□□□ CYP2E1 □□□□□□□□□ □□□□□□□□□□ □□□□□□□□□□□□□□ □□□□□□□□□□□□ □□□□□□□□□□□ □□□□□□□□□□□□□□□ — □□□ □□□□□□□□□ □□□□□ □□□□□□ □□ □□□□□□□□□□□□ □ aggravates □□□□□□□□□□. N-□□□□□□□□ □□□□□□□□□□□ (NAC) □□□□□□ □□□□□□□□□ □□□□□□□ □□□□□□ (□□□□□□□□□□□□ □□□□□□□□□□□□□□, □□□□□□-□□□□□□□□□ □□□□□) □□□□□□□□□□□ □□□□□□□□□□ □□□□□□□□□□□□□□.
CYP2C19 / CYP2D6	□□□□□□□□□□□□□ □□□□□□□□□□□□□□□ □□ □□□□□□ □□□□□ □□□□□□□ □□□□□□□ □□□□□□□□□□	□□□□□□□□□ □□□□-□□□□□ □□□□□□□□□□□ □□□□□□□□□□□□	□□□□□□□□□□□□□□□ (CYP3A4), □□□□□□□□□□□□□□□ (CYP □□□□□□□□□□ □□□□□□□□□□□□□ — □□□□□□□□□□□), □□□□□□□□□□□□ □□□□□□ □□-□□□□□□□ □□□□□□□ □□□□□□□□□□□□□□□ □□□□□□ □□□□□ □□□□□□□ □□□□□□ □□ □ □□□□□ □□□□□□□ □□□□□□□□□□. □□□□□□□□□□□□□□□ □□□□□□□□ □□□ □□□□□□□□□□ □□□□□□□□□□□□□□□□□; □□□□□□□□- □□□□□□□□□□ □□□□□□□□□□□□□ □□□□□□□□□□. □□□□□□□□□□□□□□□□ □□□ □□□□□□□□□□□□□□□□.

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- [redacted]? → [redacted]-[redacted], [redacted] OPRM1 A118G + [redacted] [redacted] COMT. [redacted].
- [redacted]? → DRD2 [redacted] GABRA2 [redacted].
- [redacted] (ADH1B [redacted] [redacted] ALDH2 [redacted]. [redacted].
- [redacted]? → [redacted] MTHFR [redacted]. [redacted] 5-MTHF [redacted].

[illegible] 3 — [illegible]

[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible].

[illegible] — [illegible]: [illegible]?

[illegible] — [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] [illegible]: [illegible] → [illegible] → [illegible] → [illegible] → [illegible] → [illegible]. [illegible] [illegible] [illegible] [illegible] 6-48 [illegible] [illegible] [illegible].

[illegible] [illegible] [illegible] — [illegible], [illegible] — [illegible] [illegible] [illegible] [illegible]:

- [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
- [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]: [illegible], [illegible], [illegible] [illegible], [illegible], [illegible] [illegible].
- [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]?
- [illegible] [illegible] [illegible] [illegible] [illegible] - [illegible], [illegible], [illegible], [illegible] [illegible].
- [illegible] [illegible] [illegible] [illegible] GABA[illegible] [illegible] [illegible] - [illegible] [illegible] [illegible].
- [illegible] GABRA2 [illegible] [illegible] [illegible] - [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] [illegible].

[illegible] [illegible] [illegible]

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[illegible] [illegible]: [illegible] **(CIWA) —** [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]. [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible].

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[illegible] 6-24 ([illegible] - [illegible])	[illegible] GABA [illegible]; [illegible]	[illegible], [illegible] sweats, [illegible], [illegible], [illegible]	[illegible]. [illegible], [illegible] 112 [illegible]. [illegible].
[illegible] 24-72 ([illegible])	[illegible]-[illegible] [illegible]; [illegible]; [illegible].	[illegible], [illegible], [illegible], [illegible]	[illegible]. [illegible]: GABA [illegible]in [illegible]. [illegible] (B1) — [illegible].
[illegible] 3-7 ([illegible])	[illegible]; GABA [illegible]; [illegible]; [illegible]	[illegible], [illegible], [illegible], [illegible], [illegible]	[illegible] ([illegible] 4). [illegible] - [illegible]. [illegible] - [illegible]. [illegible].
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PAWS [illegible] [illegible] [illegible]: [illegible], [illegible], [illegible], [illegible], [illegible] [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] [illegible]. GABRA2 [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] PAWS [illegible] [illegible].

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[illegible] — GABA [illegible]

[illegible] — [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

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[illegible] ([illegible])	140–420mg [illegible] (70–80% [illegible])	[illegible]	[illegible] botanique. [illegible] anti-inflammatory, antioxidant [illegible] antifibrotic [illegible] — [illegible]. [illegible]. [illegible]-[illegible]

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2. 4-7-8 [illegible] [illegible]. [illegible] [illegible] [illegible]. [illegible] [illegible] [illegible]. [illegible] [illegible] [illegible] [illegible] [illegible] [illegible].
3. [illegible] [illegible] [illegible]. GABA [illegible] [illegible] + L-theanine. [illegible] [illegible] L-tyrosine [illegible] Rhodiola ([illegible] [illegible] [illegible] [illegible] [illegible] [illegible]). [illegible] [illegible] 1–2 [illegible] [illegible] — [illegible] [illegible] [illegible] [illegible] [illegible].
4. [illegible] [illegible] [illegible] [illegible] [illegible]. [illegible] [illegible] [illegible] [illegible]. [illegible], [illegible] [illegible] [illegible] [illegible], [illegible] [illegible].
5. [illegible] [illegible]. [illegible] [illegible] [illegible] [illegible] [illegible]. [illegible] [illegible] [illegible] - [illegible] [illegible]. [illegible] [illegible] [illegible] [illegible].
6. [illegible] [illegible] [illegible]. [illegible] 6 [illegible]. [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]. [illegible] [illegible] — [illegible] [illegible], [illegible].
7. [illegible]rrep, [illegible], [illegible] (0-10), [illegible], [illegible]. [illegible] [illegible] [illegible] [illegible]. [illegible] [illegible].

[illegible] — [illegible]

[illegible] GABA [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]. [illegible] [illegible] [illegible] [illegible] — [illegible] [illegible] [illegible].

[illegible]	[illegible] [illegible] [illegible] [illegible]	[illegible]ing	[illegible]
BPC-157	[illegible] [illegible]; [illegible]; [illegible] [illegible] [illegible];anti-inflammatory; [illegible] [illegible] [illegible] [illegible]	[illegible] 1 [illegible] - [illegible]	BPC-157 [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]: [illegible] [illegible] ([illegible] [illegible]), [illegible]-[illegible] [illegible] [illegible]. [illegible] [illegible] administration [illegible] [illegible] [illegible] [illegible]. [illegible]-[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible].
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	[illegible] [illegible]; [illegible] [illegible] [illegible]; [illegible] [illegible] [illegible]	[illegible] [illegible]; GABA-[illegible] [illegible] [illegible]	[illegible] [illegible] [illegible] GABA-[illegible] [illegible] [illegible] [illegible] [illegible] [illegible]. [illegible] [illegible] [illegible] [illegible]. [illegible], [illegible] [illegible]. [illegible].
[illegible]	[illegible] [illegible]; [illegible] [illegible]; [illegible] [illegible] [illegible]	[illegible] 1–4 — 10 [illegible] [illegible], [illegible]	[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]. [illegible] (Epitalon) [illegible] [illegible] [illegible] [illegible] [illegible]. [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible].
[illegible]-4 (TB-500)	anti-inflammatory; [illegible] [illegible]; [illegible] [illegible] [illegible] [illegible] [illegible]	[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] 5 — [illegible]

[illegible] — [illegible] [illegible] [illegible] [illegible] [illegible]. [illegible] [illegible] [illegible]. [illegible] [illegible] [illegible].

[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]. [illegible] [illegible] [illegible] — [illegible] [illegible] [illegible]. [illegible] [illegible] [illegible]. [illegible] REM [illegible] [illegible] [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] [illegible], [illegible] [illegible]-[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [

[illegible] [illegible] REM [illegible] [illegible] — [illegible] [illegible], [illegible] [illegible].

Глава 6 — Нейробиология зависимости: дофамин и GABA против вечности

Из дневника — Наблюдения нейрохирурга Виктора Ли-28 Медицина

Когда человек, который, казалось бы, имеет абсолютно всё, начинает медленно умирать внутри. Наблюдение за этим процессом — самое трудное, что я делал в своей жизни.

Ключевые понятия этой главы

Понятие	Простое объяснение	Зачем нужно пациенту
Награда, мотивация / Дофамин	Нейромедиатор — химический посредник между нейронами. Отвечает за предвкушение, мотивацию, обучение. Вещества, вызывающие зависимость, вызывают его выброс, или имитируют его действие.	Чтобы понять, почему «хочу» и «люблю» — не одно и то же.
Подкрепление, усиление / Усиление	Нейронная реакция + память. Мозг запоминает, что привело к награде, и повторяет это.	Я goal должен быть достижимым и измеримым. Цель — «больше не пить» — плохая цель. Цель — «сегодня не пить» — хорошая.
Синдром отмены / Ломка	Неприятные ощущения при прекращении приема. Они разные: физические, психологические. Ломка — самая известная.	Чтобы знать, что ожидать, и не паниковать. Ломка — временно. Тяга — может длиться годами.

Глава 6 — Нейробиология зависимости: дофамин и GABA против вечности

Из дневника — Наблюдения нейрохирурга Виктора Ли-28 Медицина

Самый страшный враг, который когда-либо встречался мне на операционном столе, был невидим. Он не имел формы, не оставлял шрамов на коже. Он жил в самых глубоких структурах мозга и медленно, терпеливо разрушал человеческую личность.

		[illegible].
[illegible] [illegible] [illegible] [illegible]	[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]. [illegible] [illegible] [illegible] - [illegible] [illegible], [illegible] [illegible] [illegible], [illegible] [illegible] [illegible].	[illegible] [illegible]: [illegible] [illegible], [illegible] [illegible], [illegible] [illegible]. [illegible] [illegible] [illegible] ([illegible] [illegible], [illegible] [illegible], [illegible]). [illegible] [illegible] [illegible]. [illegible]; [illegible] [illegible] [illegible].

[illegible] [illegible] [illegible] GABA [illegible]

[illegible] — [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] - [illegible] [illegible] [illegible] [illegible] [illegible], [illegible] [illegible], [illegible] [illegible] [illegible] - [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]. [illegible] [illegible] [illegible] [illegible] [illegible]. [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

- [redacted]
- [redacted]

[illegible] 7 — [illegible]: [illegible]

[illegible]		[illegible]	[illegible]
[illegible] ([illegible] 0-7)	[illegible] - [illegible]	[illegible]. [illegible]. [illegible].	Recovery Kernel [illegible]. [illegible]. [illegible], [illegible].
[illegible] ([illegible] -[illegible])	[illegible] 07, [illegible] 09, [illegible] 17, [illegible] 18	[illegible], [illegible], [illegible], [illegible], [illegible]	[illegible] 1 [illegible]. [illegible] 1 [illegible]. [illegible] 1 [illegible] -[illegible]. [illegible]. [illegible]. [illegible] 18 ([illegible]) [illegible] 09 ([illegible]-[illegible]) [illegible] I .
[illegible] ([illegible] 1-4)	[illegible] ([illegible]), [illegible], [illegible]	GABRA2 [illegible], [illegible] OPRM1, COMT [illegible], MTHFR	[illegible]2 [illegible]-[illegible] OPRM1 A118G [illegible] — [illegible] ([illegible], Naloxone [illegible]). [illegible].
GABA [illegible] ([illegible] 1-12)	[illegible] 04, [illegible] 01 [illegible], [illegible] [illegible] 4.2	GABA [illegible], [illegible], [illegible], [illegible]	[illegible], [illegible] GABA [illegible] - [illegible]. [illegible] [illegible].
[illegible] ([illegible] 2-12)	[illegible] 02, [illegible] 05, [illegible] 06, [illegible] 08,	[illegible], [illegible], [illegible], [illegible]	[illegible] (Alcohol-to-benzodiazepine transfer) [illegible]. [illegible] 02 [illegible]. [illegible].

	[illegible] 13		[illegible] [illegible] [illegible]

[illegible] 8 — [illegible] [illegible]

[illegible] [illegible] [illegible] (Alcohol use disorder) [illegible] [illegible] [illegible] [illegible] [illegible], [illegible] [illegible]. [illegible] [illegible] [illegible] [illegible] [illegible] — [illegible] [illegible] [illegible] [illegible] [illegible] AUD [illegible] [illegible] 10% [illegible] [illegible] [illegible] [illegible] [illegible].

[illegible] [illegible] [illegible] [illegible]. [illegible] [illegible] [illegible]. Recovery Kernel [illegible] [illegible] [illegible] [illegible] - [illegible] [illegible] [illegible] [illegible] [illegible].

[illegible] [illegible] [illegible] FDA-[illegible] [illegible]

[illegible]	[illegible]	[illegible] [illegible]	[illegible] [illegible] [illegible]
[illegible] (naltrexone, [illegible] [illegible] / [illegible])	[illegible] [illegible] - [illegible] [illegible] [illegible], '[illegible] [illegible]' [illegible] [illegible] [illegible].	[illegible] — [illegible] RCT[illegible]; FDA [illegible] [illegible]	OPRM1 A118G [illegible] [illegible] [illegible] [illegible] - 3 [illegible]. [illegible] [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] [illegible]. [illegible] [illegible] (Vivitrol) [illegible] [illegible] [illegible]. [illegible] - [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible].
[illegible] ([illegible])	GABA [illegible] [illegible] [illegible] — [illegible] [illegible] PAWS [illegible] [illegible] [illegible] [illegible]; [illegible] [illegible] [illegible].	[illegible] - FDA [illegible]; PAWS [illegible] [illegible]	[illegible] GABA-[illegible] (GABRA2 [illegible] [illegible]) [illegible] [illegible] PAWS [illegible] [illegible]. [illegible] [illegible] — [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

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[redacted] — [redacted] [redacted] [redacted] [redacted]. [redacted] [redacted] [redacted] [redacted].

[redacted] [redacted] [redacted] [redacted] GABA [redacted]. [redacted] [redacted] [redacted] [redacted] [redacted] [redacted]. [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted]. [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted]